

KORFUND

VIBRATION CONTROL



for all types

of equipment

and applications

Lengthens building and machine life

Improves working and living conditions

Decreases original building and foundation costs

Permits more efficient plant layout

Increases production • Reduces work spoilage

Easy to install and adjust • Economical

Long lived • Trouble-free service

Choice of Steel Spring, Cork or Rubber as isolating medium assures right isolation for the job

Standard units quickly obtainable • Special designs also available

Recommendations backed by 45 years of experience

Representatives in principal cities

A.I.A. Ref. No. 37-H

See selector chart on page 2 which tells at a glance the recommended Korfund Isolation for any particular job.

Korfund isolation selector chart

How To Use This Chart: Isolation recommendations are listed opposite each machine by numbers which correspond with numbers assigned to Korfund products described on pages 3 and 4.

Where more than one product is listed (e.g., Cork Materials—12, 13, 14 and 15), selection is governed by allowable loadings, etc. given in product description.

Isolated concrete foundations are required where machine size and characteristics necessitate a stabilizing mass and/or a rigid support for the machine.

ADDITIONAL DATA AND PRICES ON ALL PRODUCTS FURNISHED UPON REQUEST

MACHINE	ISOLATION RECOMMENDED FOR HIGHEST EFFICIENCY		ALTERNATE RECOMMENDATION Satisfactory for less critical jobs		MACHINE	ISOLATION RECOMMENDED FOR HIGHEST EFFICIENCY		ALTERNATE RECOMMENDATION Satisfactory for less critical jobs	
	No Concrete Foundation Required	Concrete Foundation Required	No Concrete Foundation Required	Concrete Foundation Required		No Concrete Foundation Required	Concrete Foundation Required	No Concrete Foundation Required	Concrete Foundation Required
Air Conditioners, Unit	6, 7, 8, 18	—	16	—	2. Heating, Ventilating & Air Conditioning	22	—	—	—
Brakes	1	—	18	—	3. Industrial Forced & Induced Draft	—	1, 4	—	—
Broaches	1	4	—	—	4. Industrial Ex-hausters	1	—	16, 22	12, 13, 14, 15
Business Machines	21	—	—	—	Flame Cutters	—	3, 4	—	—
Centrifuges	1	—	—	—	Foundry Jolt-Moulding Machines	—	1, 4	—	—
Clickers	1	—	19	—	Furnaces	1, 4	—	18	—
Coal Pulverizers (large)	—	12, 13, 14, 15	—	—	Gear Cutters	1	—	—	—
Compressors:					Grinders:				
1. Fractional H.P.	5, 7, 9, 10, 20	—	—	—	1. Centerless, cylindrical, tool and small surface	1	—	—	—
2. Vertical & Horizontal under 400 RPM	—	+	—	—	2. Roll	—	4	—	—
3. Vertical 400-600 RPM (over 15 H.P.)	—	1, 3	—	—	3. Surface (large)	—	1	—	—
4. Vertical 400-600 RPM (under 15 H.P.)	1	—	7, 16, 17, 19	—	Hammers	—	1, 4	—	—
5. Vertical over 600 RPM & V, W, or radial over 400 RPM	1	—	7, 16, 17, 19	—	Hammermills	1	—	18, 19	18, 19
6. Centrifugal	—	4	—	11, 13, 14, 15	Hogs and Crushers, Meat	1	—	18, 19	—
Dinkers	1	—	18, 19	—	Instrument Panels	1, 5, 7, 8, 10	—	18	—
Dry Cleaning Machines	1	—	—	12, 13, 14, 15	Jig Borers	—	—	—	—
Dynamometers	—	1, 3, 4	—	12, 13, 14, 15	Laundry Extractors	—	1, 12, 13, 14	—	—
Engine Generators Low-Speed Diesel & Gas					Lathes (large)	—	1, 4	—	14
1. Single Cylinder	—	3	—	12, 13, 14, 15	Milling Machines	—	—	—	—
2. Two, three, four & five cylinder	—	3, 4	—	—	Motor Generator Sets	1	—	11, 19	—
3. Six cylinder and above	—	4	—	12, 13, 14, 15	Paper Cutters	1	—	7, 9, 19, 20	—
Engine Generators & Power Units (High-Speed Diesel & Gasoline)	1, 2	—	16, 19	12, 13, 14, 15	Pebble Mills	1, 2	—	18, 19	—
Evaporative Condensers	6, 7, 8, 18	—	16	—	Pipe Supports	1, 6, 8	—	—	18
Fans:					Presses, Hydraulic Presses, Newspaper	4	4	—	—
1. Utility Unit Blowers	7, 9, 20	—	17	—	1. New Installations	—	—	12, 13, 15	—
† Press Column Isolation									
† Write Korfund									

TYPICAL SPECIFICATIONS

1. Machines Mounted Directly on Isolation Material:

"To prevent vibration and shock transmission, the (machine) shall be resiliently mounted directly on Korfund (type of isolator). Isolator sizes to be determined by manufacturer and units to be installed in accordance with manufacturer's instructions."

2. Machine and Driving Unit Mounted on Isolated Steel Base:

"To prevent vibration and shock transmission, the (machine and driving unit) shall be mounted on an integral steel base which shall be resiliently mounted on Korfund (type of isolator). Isolator sizes to be determined by manufacturer and units to be installed in accordance with the manufacturer's instructions."

NOTE: Brief product descriptions from pages 3 and 4 can be incorporated if more detailed specifications are desired.

3. Machines Mounted on Isolated Concrete Foundation:

"To prevent vibration and shock transmission, the (machine) shall be mounted on a concrete foundation which is supported on Korfund (type of isolator). Isolation sizes to be determined by manufacturer and material to be installed in accordance with manufacturer's instructions."

4. Fans and Motors:

"Fans and motors shall be mounted on separate bases consisting of structural angles forming rails held in rigid alignment by adjustable chocks. Construction of bases must be such as to permit job-site changes in motor position, drive-center distance, fan rotation, and fan and motor mounting bolt locations if necessary. The isolating medium in the bases shall be cork, rubber-in-shear, or springs (specify one). Bases shall be the Korfund Adjustable Duplex Twin Rail Type."

SPRING TYPE

Korfund steel-spring mountings provide the most efficient method of isolating vibration, approaching 100% in effectiveness. Adaptable to practically any type of installation since their elastic qualities can be predetermined and accurately controlled. Adjustable to meet unforeseen conditions without

foundation changes. Individual mounting load capacities up to 50,000#. Furnished in several designs to accommodate entire range of disturbing frequencies. Korfund spring isolators usually outlast the machine because all parts, including springs, are designed with a high safety factor.

1. TYPE LK VIBRO ISOLATOR—Universal Type.



Load Range: 30# to 17,000#. All-directional isolator for application under machines causing vibration or under sensitive units requiring protection from external vibration. Installed directly under machine, structural base, or light concrete foundation. Cast semi-steel construction. Fully adjustable with vertical and horizontal thrust control and built-in levelling device.

3. TYPE UP VIBRO ISOLATOR



Load Range: 50# to 10,000#. All-steel unit with extra-long springs for isolating very low frequency vibration. Used with structural base or concrete foundation on which machine is mounted. Built-in levelling device. Separate snubber control when required.

5. TYPE AK VIBRO ISOLATOR



Load Range: 30# to 200#. Low-cost, efficient spring isolator for light-weight machinery. Assembled unit fastens directly to machine legs or base.

2. TYPE SK VIBRO ISOLATOR

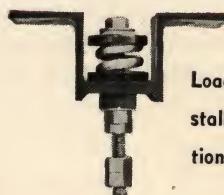
For heavy-duty marine and stationary installations demanding extreme horizontal thrust capacity. Similar to Type LK (left) except of all-welded steel construction.

4. TYPE UN VIBRO ISOLATOR. (Also Type UV)



Load Range: 3,000# to 50,000#. Heavy-duty unit used to support heavy machines and concrete inertia mass if required. Built-in levelling device. Separate snubber control when required.

6. VIBRO HANGER



Load Range: 50# to 650#. For suspended installations. Also used as pipe hanger when vibration transmission through pipes is a problem.

RUBBER MOUNTINGS

Although not so durable as steel springs, rubber can be applied effectively to prevent vibration and noise transmission in many types of installations. Economical, efficient for smaller machines of medium and high frequency.

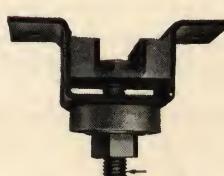
Not recommended for impact machinery or for use in presence of sun-light, acids, alkalies, or temperatures over 130° F. Available on special order in synthetic rubber for applications exposed continuously to oil.

7. TYPE RMG RUBBER-IN-SHEAR



Load Range: 30# to 100# per inch. Length 18" maximum. Bonded rubber-in-shear unit for small and medium-size machinery. Hardness of rubber varied to suit operating conditions. Loading determines length of mounting.

8. TYPE RH RUBBER-IN-SHEAR HANGER



Load Range: 10# to 50# per inch length. 6" maximum standard. Rubber-in-shear mounting designed for use in suspended installations. Safety feature eliminates possibility of equipment falling in event of damage to rubber. Also used as resilient pipe hanger.

9. RUBBER COMPRESSION AND SHEAR MOUNTINGS—

TYPE RS



Load Range: Compression—20# to 125#; Shear—to 40#. Combination of steel spring and rubber increases load capacity and stability over conventional rubber mountings of equal size. Small size, low cost permit incorporation in design of original equipment.

10. RUBBER COMPRESSION AND SHEAR MOUNTINGS—

TYPE R



Load Range: Compression—10# to 700#; Shear—2# to 375#. Conventional type rubber mounting. Size and rubber durometer varied to suit loading.

CORK

Economical, easy to install. Excellent in preventing noise transmission and effective as isolator for medium- and high-frequency vibration. Cork is

11. STEEL-BOUND CORK



Load Range: 1000# to 3000# per sq. ft. Used directly under machines, skids, structural base or concrete block. Natural cork strips bound in steel frame. Thickness: 1", 1½", 2", 3", or 4". Size up to 30" x 60", with minimum width of 5".

13. BALANCED ISOLATOR



to suit loading. Can be cut with hand saw. Standard plate 36" x 48" or cut to size. Thicknesses: 1½", 2", 3", 4".

15. ARMSTRONG'S VIBRACORK



Load Range: Standard Density—1500# to 4000# per sq. ft.; Heavy Density—5700# to 8500# per sq. ft. Granules of cork compressed and baked under pressure; exact density control maintained. Standard sheets 12" x 36" or cut to size. Can be cut with hand saw. Thicknesses: Standard Density—2", 3"; Heavy Density—1", 2", 3".

18. ELASTO RIB



Load Range: 750# to 5000# per sq. ft. Effective for absorbing noise, vertical and horizontal vibration. Installed directly under machines, skids, structural bases or concrete foundations. Fine-granule cork bonded between oil-resistant, ribbed-rubber.

Grooved rubber provides increased deflection and forms a non-skid surface. Standard plate 24" x 36" or cut to size. 1" thick. Can be cut with knife or circular saw.

21. VIBRO PLATE



Load Range: 25# to 400#. For elimination of vibration and noise transmission from business machines and small units not requiring bolting down. Placed directly under legs of machine; no tools required for installation. Cork and oil-resistant rubber unit in metal housing. Non-skid pad prevents "walking."

not adversely affected by oil, water, sunlight, heat or cold and, when properly utilized, gives years of effective service.

12. BASE ISOLATOR



Load Range: 1000# to 3000# per sq. ft. Plates applied directly to base of foundation pit and joints sealed, presenting unbroken, watertight surface upon which concrete may be poured. Natural cork mat with top and bottom surfaces bound with asphalt and asphalt felt. Standard plates 24" x 48" or furnished cut to size. Can be cut with hand saw. Thicknesses: 1", 1½", 2", 3", and 4".

14. PANEL SEISMO DAMPER



Load Range: 250# per sq. ft. to 1400# per sq. ft. Recommended for jobs involving very unequal or light load distribution. Natural cork pads bonded to underside of heavy-gauge sheet-metal panel on which concrete is poured. Area and placement of cork determined for optimum loading in accordance with weight distribution. Thicknesses: 2", 3", 4".

16. VIBRO BAR



Load Range: 50# to 650# per 6" length. For medium- and high-speed machines. Channel-type rail, employing natural cork as isolating medium. Individual units, continuous rails, or integral bases.

17. VIBRO BAR SPECIAL

Load Range: 100# to 400#. Similar to Vibro Bar (above) but lighter construction. One size only—3" x 6". Inexpensive, efficient.

CORK AND RUBBER

19. ELASTO RIB DAMPER—TYPE ER

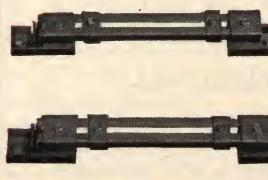


Load Range: 160# to 1260#. Elasto Rib in metal housing which permits bolting of machine to floor. Can be provided with isolated through-bolts to resist upward thrust.

20. ELASTO RIB DAMPER—TYPE AER

Load Range: Up to 150#. Similar to Type ER (above) except for lighter load.

22. DUPLEX TWIN RAIL FAN AND MOTOR BASE



Separate base for fan and motor. Pairs of structural angles form rails which are held in rigid alignment by adjustable chocks. Cork, Rubber-in-Shear or Steel Springs furnished as the isolating medium. Unique patented construction permits job-site changes in motor position, drive-center distance, fan rotation and bolt-hole spacing. Light weight, strong, and extremely easy to install.

THE KORFUND COMPANY, INC.

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